

IMT-BT Rugged Tablet

User's Manual

(Windows Embedded)



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Advance Technologies; Automate the World.

Revision History

Revision	Release Date	Description of Change(s)
0.10	29/12/2015	Preliminary release

Revision History

Preface

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Battery Labels



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of their respective companies.

Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



Additional information, aids, and tips that help users perform tasks.



Information to prevent *minor* physical injury, component damage, data loss, and/or program corruption when trying to complete a task.



Information to prevent *serious* physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

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1 Introduction

1.1 Overview

The IMT-BT Rugged Tablet is designed for customers in the retail and field service markets requiring a semi-rugged tablet running Windows Embedded 8.1 to act as a durable terminal with high performance computing and versatile features. The IMT-BT features a 1.58 GHz dual-core Intel® Celeron® Processor N2807 system-on-chip, reader functions, drop pro-tection. The device provides the relevant information to the medical personnel by hand-held using. Patient and surgery data is stored locally or can be exported to external systems. The unit shall provide sufficient protection against electric shock.

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1.2 Features

- Intel® Celeron® Processor N2807 dual-core processor system-on-chip
- ► Windows Embedded 8.1 operating system
- ► 10.1" sunlight readable display, capacitive touchscreen
- ► Wireless Connectivity:
 - ⊳ WLAN: IEEE 802.11 a/b/g/n
 - >WPAN: Bluetooth 4.0

```
⊳
```

1.3 Specifications

Physical	• Dimensions: 288 x 191 x 18.5 mm (L x W x T) • Weight: 1150g
Processor	Intel® Celeron® Processor N2807 (1M Cache, up to 2.16 GHz)
Memory & Storage	• 4 GB DDR3 RAM • 64 GB eMMC
Display	 10.1" sunlight readable display, 1280x800 resolution Projected capacitive touchscreen 700 nits brightness 2-points touch Corning Gorilla glass (7H hardness) HDMI port (Type A)
Buttons	 1x power button 4x programmable buttons
Expansion Slots	 1x SIM slot 1x SD slot (SDHC up to 64GB, Class 2 to 10) 1x USB 3.0 (Type-A)
Wireless LAN	IEEE 802.11 a/b/g/n (combo Mini PCIe half-size card • WEP, WPA/WPA2, WAPI • 802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps; 802.11g: up to 54 Mbps; 802.11n: up to 65 Mbps • Distance: 50 meters indoors, 150 meters outdoors
Wireless PAN	Bluetooth 4.0 (combo Mini PCIe half-size card)

Table 1-1: IMT-BT Specifications

	· · · · · · · · · · · · · · · · · · ·
Built-in Sensors	 G sensor: 3-axis, 2g, at least 8-bits accuracy E-Compass: 3-axis, at least 8-bits accuracy
0013013	
	Gyroscope: 12-bits accuracy
	Illuminance sensor: 0 ~ 100,000 lux
Status LEDs	Power, Wi-Fi, Charging
Camera	 Back: 5 megapixel color camera with flash, autofocus
	Top: 2 megapixel color camera
Audio	 Speaker, 100dB 1kHz @10 cm, 8 ohms
	Stereo headphone jack (3.5mm)
	Bluetooth headset support
	Built-in microphone
Battery	ADLINK TECHNOLOGY, INC. / IMTBT-B6300L-1
	• Li-ion 6300 mAh, 7.4VDC
	• Full charge time < 4 hrs
Daman Adamtan	
Power Adapter	Sinpro Electronics Co., Ltd. / HPU32A-105
	• Input AC 100~240 V, 47-63 Hz
	Output: DC 12V, 2.5A.
OS	Windows Embedded 8.1
Environmental	 Operating Temperature: 0 ℃ to 30 ℃
	 Charging Temperature: 0 °C to 30 °C
	 Transport / Storage Temperature: -20 ℃ to 60 ℃
	 Operating Humidity: 10% to 90% non-condensing
	Transport/Storage Humidity: 5% to 95% non-condensing
	Drop: 1.0 meters
Ambient air	• 700-1013 hPa
pressure for	* / 00-1013 HF d
operation,	
storage and	
transport:	
Outlification	00.05
Certifications	• CB, CE
	• RoHS
	• UL/ cUL

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Table 1-1: IMT-BT Specifications

1.4 Package Contents

Please check that your package contains the items below. If you discover damaged or missing items, please contact your vendor.

- ► IMT-BT industrial tablet
- ► AC power adapter x1
- ► Hand strap x1





DO NOT install or apply power to equipment that is damaged or if there is missing/incomplete equipment. Retain the shipping carton and packing materials for inspection. Please contact your ADLINK dealer/vendor immediately for assistance. Obtain authorization from your dealer before returning any product to ADLINK.

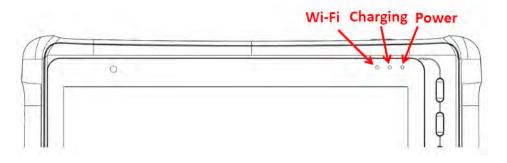
1.5 Product Layout





Figure 1-1: IMT-BT Layout

Status LEDs



LED	Color	Status
Wi-Fi	Green	Connected (flashing when active)
Charging (when AC adapter	Orange (solid)	Charging
is connected)	Off	Fully charged
	Orange (flashing)	Abnormal charging condition
Power	Blue	System ON
	Amber	Standby (S3)

Table 1-2: IMT-BT Status LED Descriptions

2 Getting Started

2.1 Charging the Battery

Be sure to fully charge the battery before using your device for the first time.

1. Locate the DC input socket on the left side of the tablet and open the cover.



- 2. Insert the DC jack end of the AC adapter into the socket and the AC plug into the wall socket.
- 3. The power status LED glows Orange when charging. If charging for the first time, do not disconnect your device from AC power until the battery is fully charged, indi- cated by the power status LED glowing green. This may take up to 4 hours.
- 4. Close the cover when charging is completed.



A blinking power status LED indicates an abnormal charging condition. Check that the AC adapter is properly inserted into the DC input socket and that the device is not charging in high temperature conditions, resulting in an overheated battery.



- For optimum performance of your battery:
- Only use the AC adapter provided
- Do not charge the battery when the temperature is high
- (e.g. in direct sunlight).
- Do not store the device in high temperature environments
- Only charge the battery when its temperature is between 0 $^\circ C$ and 30 $^\circ C$
- If you are not using the device for an extended period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect its performance.

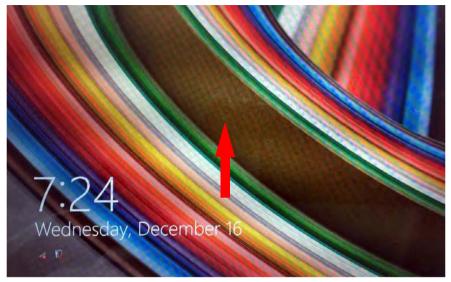
2.2 Turning the Tablet On/Off

Turning On

Press and hold the power switch for 2-3 seconds until the blue power status LED indicator turns on.

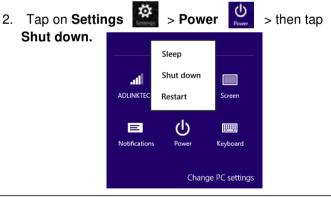


Swipe upwards on the lock screen to go to the login screen.



Turning Off

1. Open the **Charms Bar** by swiping left from the right edge of the screen.





To perform a forced shut down, hold the power button down for _5-6 seconds.

Standby

To manually put the tablet into standby mode (S3), briefly press the power button. The display will turn off and the power status LED will change to Amber after a few seconds.

To wake the tablet from Standby, tap the touchscreen or briefly press the power button.

3 Using the Tablet

This chapter describes how to perform basic operations with the tablet.



The device can get uncomfortably warm when used in warm environments. Take care to protect yourself (e.g. by wearing gloves). Prolonged body contact can cause discomfort and potentially a burn. I

3.1 Initial Setup

After turning on your device for the first time, follow the steps below to complete the initial setup.

1. Tap I accept to accept Windows licensing terms.

MICROSOFT SOFTWARE LICENSE TERMS WINDOWS EMBEDDED 8.1 INDUSTRY PRO This is a ficense agreement between Microsoft Corporation (or based on where you live one of its affiliates) you that describes your rights to use Windows Embedded 8.1 Industry Fro. For years convenience, we have organized this agreement into two parts. The first part includes introductory terms phrased in a question and answer format the Additional Terms follow and contain greater detail. You should review the entire agreement, including any livical terms, because all of the terms are important and together create this contrast that opplies to you. You can review linked terms by pasting the forward link in your browser window once the software is running. The Additional Terms contain a binding arbitratio clause and class action waiver. If you live in the United States, these affect your rights to resolve a diagonar with Microsoft, so you should need them carefully. By accepting this agreement or using the software, you agree to all of these terms and consent to	ny ou sdi into
this is a license agreement between Microsoft Corporation (or based on where you live, one of its alliabets you that describes your rights to use Windows Embedded 8.1 Industry Pro. For years convenience, we have organized this agreement into two parts. The first part includes introductory serror phrased in a question and answer format the Additional Terms follow and contain greater detail. Yo should review the entire agreement, including any linked terms, because all of the terms are important and together create this contrast that applies to you. You can review linked terms by pasting the forward link in your however mindow once the software is running. The Additional Terms contain a binding arkitratic clause and class action waiver. If you live in the United States, these affect your rights to resolve a dispute with Microsoft, so you should read them carefully. By accepting this agreement or using the software, you agree to all of these terms and consent to	ny ou sdi into
you that describes your rights to use Windows Embedded 8.1 Industry Fro. For years convenience, we have organized this agreement into two parts. The first part includes introductory terms phrased in a question and answer format the Additional Terms follow and contain greater detail. You should review the entire agreement, including any kinked terms, because all of the terms are important and together create this contract that applies to you. You can review linked terms by pasting the forward link in your browser window once the software is running. The Additional Terms contain a binding arbitration clause and class action waiver. If you live in the United States, these affect your rights to resolve a dispute with Microsoft, so you should need them carefully. By accepting this agreement or using the software, you agree to all of these terms and consent to	ny ou sdi into
terms phrated in a question and answer format the Additional Terms follow and contain greater detail. You should review the entire agreement, including any linked terms, because all of the terms are important and together create this contract that applies to you. You can review linked terms by passing the forward link in your twose window once the software is running. The Additional Terms contain a binding arbitration clause and class action waiver. If you live in the United States, these affect your rights to resolve a clause and the Microsoft, so you should need them carefully. By accepting this agreement or using the software, you agree to all of these terms and consent to	ou sdii inteo
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transmission of certain information during activation and for Internet-based features of the software	
If you do not accept and comply with these terms, you may not use the software or its features.	
Contact Microsoft or the Microsoft affiliate serving your country for information about Microsoft	
refund policies. See <u>microsoft.com/worldwide</u> . Is the United States and Canada, call (800) MICRO or see microsoft.com/info/nareturns.htm.	
How can i use the software? We do not sell our software or your copy of it - we only license it. The softw	Arene .
may require a key to install or access it If it does, you are responsible for the use of keys assigned to you. W	HOL:

- 2. On **the Personalize** screen, choose a background color. This can be changed later in Settings.
- 3. In the **PC name** field, type a name for your tablet, and then tap **Next**.

Pers	onalize			
Pick a colory	ou like and give your PC a nam	ie. You'll be able to personal	ize more later.	
PC name				
	×			
7				Next

4. On the **Settings** page screen, tap **Use express settings** for the quick setup.

•	€	Settings	
		Express settings	
		 We recommend these settings, which include occasionally sending info to Microsoft. You can sustaining these settings now or later. 	
		Automatically find and connect to devices and content on this network. Automatically install Windows updates, app updates, and device software.	
		Turn on Do Not Track in Internet Explorer. Help protect your PC from unsafe files, apps, and websites, and check online for solutions to problems.	
		 Help improve Microsoft software; services, and location services by sending us info. Use Bing to get seach suggestors and web results in Windows Search, and let Microsoft use your location and other info to personalize your experiences. 	
		 In Internet Explorer, use page prediction to preload pages, which sends your browsing history to Microsoft 	
		 Let Windows and apps use your name, account picture, and advertising ID, and sequest your location from the Windows Location Platform. 	
		Learn more about express settings	
		Privary statement	
	ф	Use express settings Customize	

- 5. Wait while Windows tries to check your Internet connection.
 - Checking your Internet connection

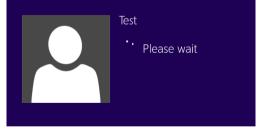
6. On the **Your account** screen, type your user name and password (if desired) to create a local account, then tap finish

¢	Your account							
	If you want a password, choose something that will be easy for you to remember but hard for others to guess.							
	User name	Example: John						
	Password							
	Reenter password							
	Password hint							
Ŷ		Finish						

7. Wait while Windows finalizes your settings.

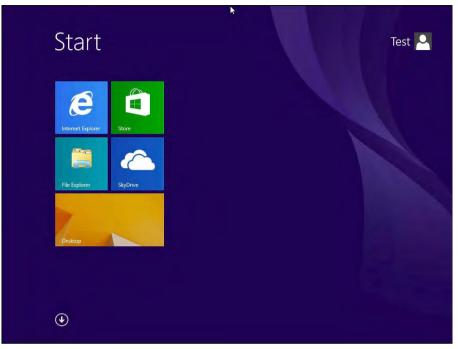
Finalizing your settings

8. At the Windows Sign-in screen, enter the user name and password (if set), and then tap Enter



9. After Windows finishes logging in, you will be taken to the Start screen.

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3.2 Navigating the Touchscreen



Be careful not to damage the touchscreen with sharp objects. Use your finger or a stylus specifically intended for touchscreens.

The following actions can be performed with the touchscreen.

- ► **Tap:** touch the screen once
- Press and hold: press and hold on an item to see a list of options available (similar to Windows right-click)
- Pinch: touch the screen with two fingers and pinch them together to zoom in, spread them apart to zoom out
- Drag: press and hold an item, then move across the screen without lifting your finger (stylus) to the target location
- Swipe: move your finger (stylus) across the screen without pausing when you first touch it (e.g. scrolling up and down)
- Swipe from the edge: swipe your finger from outside the edge onto the screen without lifting it
 - Swipe from the left edge: shows recently opened apps; keep swiping to switch between apps.
 - Swipe from the right edge: opens or closes the Charms Bar (Search, Share, Start, Devices, Settings)
- Rotate: Put two or more fingers on an item and turn your hand to rotate it. Not all items can be rotated.

Landscape and Portrait View

The tablet supports landscape and portrait view, and will automatically adjust the display orientation depending on how it is held our mounted.

3.3 Using Windows Embedded 8.1

For detailed information on what is new and how to operate Windows Embedded 8.1. For more detailed information, please refer to **http://windows.microsoft.com/en-us/windows/support**.

After powering on the tablet, swiping upwards on the lock screen to go to the login screen. After login you will see the **Start** screen.

Start Screen

The Start screen is the starting place for everything you can do in the Windows 8.1 operating system, providing access to apps, the Internet, device functions and other important information.

Tiles

The Start screen is organized into tiles. Tap a tile to access it's function (e.g. Mail or Calendar). The **Desktop** tile at the lower left corner takes you to the traditional Windows desktop interface.



Charms Bar

The **Charms Bar** allows quick access to commonly used functions. Swipe from the right edge to open it.

- Search: Allows you to search your tablet (apps, settings and files), the web, or within an app.
- Share: Allows you to share items such as links photos.
- Start: Takes you to the Start screen or, if already on the Start screen, returns you to previously used app.
- ► **Devices:** Allows you to manage your hardware.
- Settings: This charm allows you to access your tablet's settings, such as wireless connectivity, volume, brightness and the settings menu.

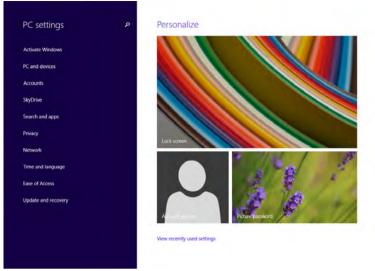


Settings

Tap **Settings** in the Charm Bar to access the Settings menu. Tap **Change PC Settings** to access more detailed menus such as **PC and Devices** and **Privacy**.



PC Settings



Desktop

The traditional Windows Desktop provides a familiar interface for Windows users. Use the Charms Bar to return to the Start screen.



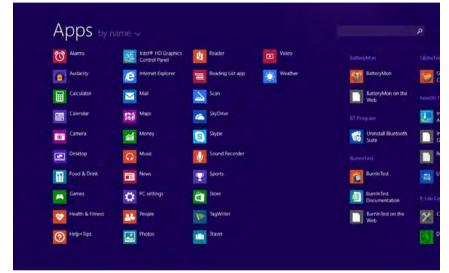
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Sign-in Options

Windows offers a number of sign-in options, including password, PIN and picture password authentication to prevent unauthorized access. To set your sign-in option, open the **Charms Bar** and tap **Settings > PC settings > Accounts > Sign-in options**.

3.4 Apps

From the Start screen, swipe upwards to access the Apps screen. Swipe left to view more apps or use the search bar at the top right.



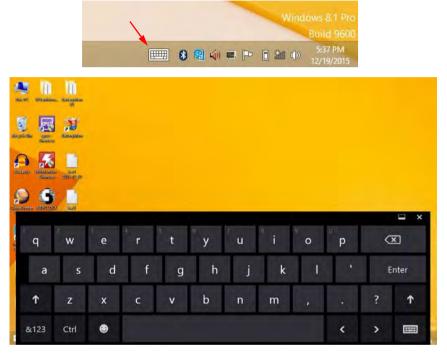
Windows Store

To access more apps for your tablet, tap on the Windows Store tile. Make sure your tablet has a Wi-Fi connection (see "Wi-Fi" on page 24.).



3.5 Entering Text

You can enter text, numbers, and symbols using the onscreen keyboard. The keyboard will appear when you touch the input field where you want to enter text. To open the keyboard manually from the desktop, tap the keyboard icon in the system tray.



To enter text, touch the keys on the keyboard to type. To enter numbers or symbols, touch the Symbols key (lower left corner) to switch to the numbers and symbols keyboard. Touch the Settings key (lower right corner) to split the keyboard or enter handwriting mode. I

3.6 Configuring the Programmable Buttons

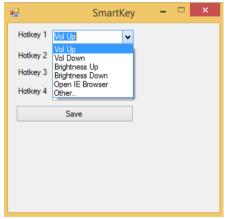
From the Desktop, double-click the SmartKey icon in the system tray to open the SmartKey configuration utility.



The default settings are shown below.

•	Smar	tKey	-		x			
Hotkey 1	Vol Up	~						
Hotkey 2	Vol Down	¥						
Hotkey 3	Brightness Up	¥						
Hotkey 4	Brightness Down	*						
	Save							
This page intentionally left blank.								

Choose from the available options or select "Other" to set the key to open an program.



4 Wireless Connections

The IMT-BT supports wireless connectivity via Wi-Fi, Bluetooth and mobile networks (optional). To turn on/off wireless connectiv- ity, touch the Wi-Fi icon from Settings in the Charms Bar or in the Desktop system tray. The Networks settings screen will display on the right hand side of the screen.

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4.1 Airplane Mode

When it is necessary to turn off all wireless radios, you can put the tablet into Airplane mode. To turn Airplane mode on or off, swipe left or right to toggle the switch.

4.2 Wi-Fi

To turn Wi-Fi on or off, swipe left or right to toggle the switch. When Wi-Fi is enabled, the tablet will scan for available networks and display them on the screen.

- 1. Touch the network you wish to connect to.
- 2. If the network is secured, you will be prompted to enter a password. If the network is open, you will be prompted to confirm that you want to connect to it.
- 3. When the Wi-Fi radio is turned on and your device finds a network that you previously connected to, it will automatically reconnect to it.

When the Wi-Fi radio is turned on and your device finds a network that you previously connected to, it will re-connect to it.

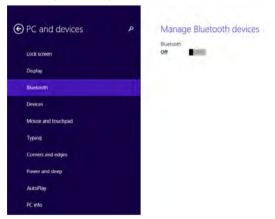


Leaving the Wi-Fi radio on will consume more power. To save _battery power, turn it off when not in use.

4.3 Bluetooth

Turn Bluetooth On/Off

To turn Bluetooth on or off, from the **Charms Bar**, tap **Settings** > **Change PC settings**. Click on **PC and devices** and then select **Bluetooth** to open **Manage Bluetooth devices**. Slide the switch to turn Bluetooth on or off. If Bluetooth is already turned on, you can access the settings from the Desktop by tapping the Bluetooth icon in the system tray.





Leaving the Bluetooth radio on will consume more power. To save battery power, turn it off when not in use.

Pairing with a Bluetooth Device

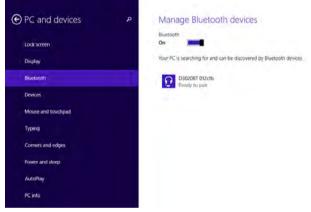
The first time you use a new Bluetooth device with your tablet, you must "pair" them, so that they know how to connect securely to each other. Afterwards, you will only need to connect to a previously paired device.

1. Make sure that the Bluetooth device you wish to pair is set as "discoverable" and within range.

2. From the Desktop, tap the Bluetooth icon and then tap Add a Bluetooth Device to open Manage Bluetooth devices (or follow the steps above using the Charm Bar).



3. Select the device you wish to pair.



- 4. The tablet will scan for and display the IDs of all available Bluetooth devices within range.
- 5. On the list of discovered devices, touch the ID of the device you wish to pair with.
- 6. If prompted, enter the pass code of the device (usually 0000 or 1234). Refer to the documentation that came with the device.
- 7. If the pairing is successful, your tablet will connect to the device.

5 External Connections

The IMT-BT has a USB 3.0 port, an HDMI display output, SD card slot and SIM card slot (optional) on the right side of the tablet, and an audio output on the left side. To access the connectors, use your fingernail to open the protective covers.

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5.1 USB Port

To connect a USB device to the tablet, such as a flash drive or external storage, use the USB 3.0 port (Type A) on the right side of the tablet.



5.2 HDMI Display Output

The HDMI (Type A) port is on the right side of the tablet.



5.3 Using a SD Card



Inserting an SD card

- 1. Locate the SD slot on the right side of the tablet and open the cover.
- 2. Insert the card into the slot with the contacts facing upwards and the label facing the back of the tablet (refer to the drawing next to the SD card slot).
- 3. Close the cover.

Removing a SD card

You can safely remove the SD card when the tablet is shut down. If you need to remove the card while the tablet is on, eject the card first to prevent corrupting or damaging the card.

- Eject the SD card (if necessary, depending on your device policy settings) by opening Windows Explorer and locating the SD card in "This Computer". Rightclick on the SD card and click "Eject". The "Safe to Remove Hardware" notification will appear in the system tray.
- 2. Open the cover and press the edge of the card to release it, then pull the card out of the slot.
- 3. Close the cover.

5.4 Audio Out

Insert your headphone connector into the 3.5 mm stereo audio jack on the left side of the tablet.

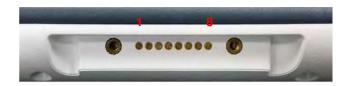


External Connections

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5.5 Docking Port Connector



Signal			
DOCK 12V			
DOCK 12V			
DOCK IO1			
DOCK IO2			
USB CNP3			
USB CNN3			
GNDP2			
GNDP2			

External Connections

5.6 Explanation of label symbols

Symbol	Meaning
	Read the user's manual and follow all warnings, handling and safety advice
CE	CE labelling: the CE symbol confirms compliance to all relevant guidelines and regulations.
F©	FCC labelling: the FCC symbol confirms compliance to all communication requirements This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
\bigcirc	Standby Switch
	USB2.0 port
SS 🖘	USB3.0 port
	ESD waring symbol
	MEDICAL – GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES 60601-1 AMD (2012) and CAN/CSA-C22.2 No. 60601-1 (2014).
<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Upright position
	Fragile, handle with care

Symbol	Meaning
Ţ	Keep away from rain
700 hPa	Atmospheric pressure limitation for storage and transport (700 – 1013hPa)
5%	Humidity limitation for storage and transport (5 – 95%)
-20°C	Temperature limitation for storage and transport (-20 – 60° C)
SŽ	SD card slot
SIM	SIM card slot
HOMI	HDMI port
?	Headphone jack
Θ-€-⊕	DC 12V in
	Class II equipment
	Direct current
\sim	Alternating current

6 Data Collection

6.1 Download TagWriter

Go to the Windows Store following the steps described on page 20. Search for "NXP TagWriter" and install the app.

I

Apps by r			
Marms Alarms	Intel® HD Graphics Control Panel	Reader Video	
Audacity	Internet Explorer	Reading List app 🔯 Weather	BatteryMon
Calculator	Mail	Scan	BatteryMon on th Web
Calendar	Maps	SkyDrive	
Camera	Money	Skype	Uninstall Bluetoot Suite
Desktop	Music	Sound Recorder	
Food & Drink	News	Sports	Burnin Test
Games	PC settings	Store	Burnin Test Documentation
Health & Fitness	People	TagWriter	BurnInTest on the Web
Help+Tips	Photos	Travel	

Tap Read to start scanning for tags.





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Data Collection

7 Care and Maintenance

- Avoid exposure to excessive moisture and extreme temperatures.
- Avoid exposure to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your tablet or drop objects on your tablet.
- ► Do not drop your tablet or subject it to severe shock.
- Do not subject your tablet to sudden and severe temperature changes. This may result in moisture condensation inside the unit and subsequent damage. In the event of moisture condensation, allow your tablet to dry out completely before powering it on.
- ► Avoid touching it with sharp objects to prevent scratches.
- When the product was dirty, use a soft, lint-free dry cloth to clean the screen and the exterior of your device.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void the warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

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Care and Maintenance

Important Safety Instructions

For user safety, please read and follow all **instructions**, **WARNINGS**, **CAUTIONS**, and **NOTES** marked in this manual and on the associated equipment before handling/operating the equipment.

- Read these safety instructions carefully.
- Keep this user's manual for future reference.
- Read the specifications section of this manual for detailed information on the operating environment of this equipment.
- ► To avoid electrical shock and/or damage to equipment:
 - ▷ Keep equipment away from water or liquid sources;
 - ▷ Keep equipment away from high heat or high humidity;
- Never attempt to fix the equipment. Equipment should only be serviced by qualified personnel.
- When charging the equipment should be installed near an easily accessible outlet.
- To fully disengage the power to the unit, please disconnect the power cord from the AC inlet.
- Equipment must be serviced by authorized technicians when:
 - ▷ The power cord or plug is damaged;
 - Liquid has penetrated the equipment;
 - ▷ It has been exposed to high humidity/moisture;
 - It is not functioning or does not function according to the user's manual;
 - ▷ It has been dropped and/or damaged; and/or,
 - \triangleright It has an obvious sign of breakage.
 - Replace the battery only by service personnel. (Refer to clause 1.3 Specifications for battery info.)
 - Replacement the battery by inadequately trained personnel could result in a HAZARD (such as excessive temperatures, fire or explosion).
 - Do not use a battery other than one approved for your device.



Risk of explosion if battery is replaced with one of an incorrect type. Dispose of used batteries appropriately.

- Do not use an AC adapter other than one approved for your device. Use of another type of AC adapter may result in malfunction and/or danger.
 - Do not use the AC adapter in a high moisture environment. Never touch the AC adapter when your hands or feet are wet.
 - Allow adequate ventilation around the AC adapter when using it to operate the device or charge the battery. Do not cover the AC adapter with paper or other objects that will reduce cooling. Do not use the AC adapter while it is inside a carrying case.
 - Connect the AC adapter to a proper power source. The voltage and grounding requirements are found on the product case and/or packaging.
 - Do not use the AC adapter if the cord becomes damaged.
 - Do not attempt to service the adapter. There are no user serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.
 - When charging the equipment should be installed near an easily accessible outlet.
 - ▷ To fully disengage the power to the unit, please disconnect the power cord from the AC inlet.
- Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard in IEC 60601-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment out-side of the patient environment.

<u>Additional information</u> <u>- Intended USER PROFILE:</u>

Aged preference 5 Education:	0-70 (Intended User Profile 1): - vocational high school graduate - major in electrical or electronic - no maximum
Knowledge:	 minimum: understanding the definition of voltage, current and frequency.
	 - understanding the definition of Class I (basic insulation) and Class II (double insulation) - could recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON' (power) and "OFF" (power)
	- no maximum
Language Skills:	Languages as specified in the marketing plan for power supply.
Experience:	- minimum: - under 75 years old: training under surveillance - other: no special experience needed - no maximum
Permissible Impairments:	 mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32) two arms / hand system capable of guiding and holding device average degree of aging-related short term memory impairment
	- impaired by 40 % resulting in 60 % of normal hearing at 500 Hz to 2 kHz
Aged preference 3 Education:	0-50 (Intended User Profile 2): - vocational high school graduate - major in electrical or electronic - no maximum
Knowledge:	 minimum: understanding the definition of voltage, current and frequency.
	 - understanding the definition of Class I (basic insulation) and Class II (double insulation) - could recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON' (power) and "OFF" (power)
	- no maximum
Language Skills:	Languages as specified in the marketing plan for power supply.
Experience:	- minimum: - under 50 years old: training under surveillance - other: no special experience needed - no maximum

Permissible Impairments:	 mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32) two arms / hand system capable of guiding and holding device average degree of aging-related short term memory impairment impaired by 40 % resulting in 60 % of normal hearing at 500 Hz to 2 kHz
Aged preference 1	8-30 (Intended User Profile 3):
Education:	 vocational high school graduate major in electrical or electronic no maximum
Knowledge:	 minimum: understanding the definition of voltage, current and frequency. understanding the definition of Class I (basic insulation) and Class II (double insulation) could recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON' (power) and "OFF" (power)

Language Skills: Languages as specified in the marketing plan for power supply.

Experience:	- minimum: - under 30 years old: training under surveillance - other: no special experience needed - no maximum
Permissible Impairments:	 mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32) two arms / hand system capable of guiding and holding device average degree of aging-related short term memory impairment

EMC Information

Guidance and manufacturer's declaration – electromagnetic emissions			
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.			
Emissions test	Compliance	Electromagnetic environment – guidance	
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.	
RF emissions CISPR 11	Class B	The device is suitable for use in all establishments, including	
Harmonic emissions IEC 61000-3-2	Class A	domestic establishments and those directly connected to the public low-voltage power supply	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	network that supplies buildings used for domestic purposes.	

Recommended separation distances between

portable and mobile RF communications equipment and the device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum	Separation distance according to frequency of transmitter		
output power of	m		
			800 MHz to 2,5
W	$d = 1, 2\sqrt{P}$	MHz	GHz
		$d = 1, 2\sqrt{P}$	$d = 2, 3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Guidance and manufacturer's declaration - electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Immunity test	IEC 60601	Compliance level	Electromagnetic
	test level		environment –
			guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast	±2 kV for power	±2 kV for power	Mains power quality
transient/burst	supply lines	supply lines	should be that of a typical commercial or hospital environment.
IEC 61000-4-4	±1 kV for input/output lines	±1 kV for input/output lines	
Surge IEC 61000-4-5	±1 kV line(s) to line(s)	±1 kV line(s) to line(s)	Mains power quality should be that of a typical commercial or hospital environment.
	±2 kV line(s) to earth	±2 kV line(s) to earth	nospital environment.
interruptions and	<5 % <i>U</i> T	<5 % <i>U</i> T	Mains power quality
voltage variations	(>95 % dip in <i>U</i> T)	(>95 % dip in <i>U</i> T)	should be that of a
on power supply input lines	for 0,5 cycle	for 0,5 cycle	typical commercial or hospital environment. If the user of the device
	40 % <i>U</i> T	40 % <i>U</i> T	requires continued
IEC 61000-4-11	(60 % dip in <i>U</i> T)	(60 % dip in <i>U</i> T)	operation during power
	for 5 cycles	for 5 cycles	mains interruptions, it is recommended that the
	70 % <i>U</i> T	70 % <i>U</i> T	device be powered from an uninterruptible power
	(30 % dip in <i>U</i> T)	(30 % dip in <i>U</i> T)	supply or a battery.
	for 25 cycles	for 25 cycles	
	<5 % <i>U</i> T	<5 % <i>U</i> T	
	(>95 % dip in <i>U</i> T)	(>95 % dip in <i>U</i> T)	
	for 5 sec	for 5 sec	
Power frequency	3 A/m	3 A/m	Power frequency
(50/60 Hz)			magnetic fields should
magnetic field			be at levels characteristic of a
IEC 61000-4-8			typical location in a typical commercial or hospital environment.
NOTE UT is the a.c.	mains voltage prior	to application of the	test level.

Guidance and manufacturer's declaration - electromagnetic immunity

The model device is intended for use in the electromagnetic environment specified below. The customer or the user of the model device should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
	MHz		Recommended separation distance
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	$d = 1, 2\sqrt{P}$
			$d = 1, 2\sqrt{P}$ 80 MHz to 800 MHz
			$d = 2,3\sqrt{P}$ 800 MHz to 2,5 GHz
			where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in metres (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b
			Interference may occur in the vicinity of equipment marked with the following symbol:
			$(((\cdot,\cdot)))$

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption

and reflection from structures, objects and people.

- ^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.
- $^{\rm b}$ Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment for body-worn configuration in direct contact to the phantom.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: X4D-IMT-BT.

Getting Service

Ask an Expert: http://askanexpert.adlinktech.com

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